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Reciprocating yarn guide drive - has crank drive with angle lever and reciprocating motion to reduce dwell times at the change-over points
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F(1-H3D)

ANGLE LEVER

A sliding block can be fitted to the free end of the angle lever (25), which rides in a path in the carrier for the linear movement of the yarn guide.

DRIVE

The crank (13) of the crank drive (12, 13, 14) gives a reduction ratio of 2:1 carrying a planet wheel (18) rotating round a fixed sun wheel (20) of a planetary gearing (18, 20). The planet wheel (18) has a lever fixed to it, of the crank (13) length, with the reciprocating motion (22) at its end.

The planet wheel (18) is linked to the sun wheel (20) by a toothed belt (21), or by an intermediate meshing cog, or by a chain passing round the planet and sun wheels. (13pp 249PADwgNo1/5).

A reciprocating motion unit (22) is linked to the pivot of an angle lever (25), coupled to a crank drive (12, 13, 14). The free end of the angle lever (25) works with the yarn guide (37), while the other end has a sliding block (30).

The block rides in a sine-shaped curve path, fixed to the frame, to compensate for any rocking motion on the angle lever (25) through the unequal linear movement of the reciprocating motion (22).

USE/ ADVANTAGE

The mechanism is the reciprocating drive to move a yarn guide forwards and backwards.

The action increases reciprocating speeds, and therefore winding speeds, as the yarn guide does not dwell at the change-over points and result in yarn windings building up at the ends of the cross-wound bobbins.

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